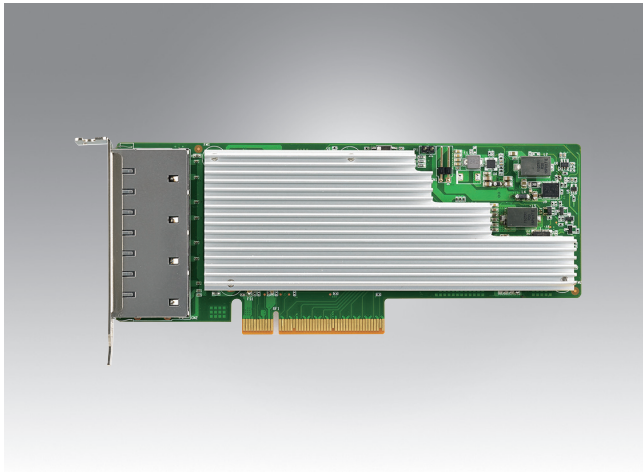


# PCIE-2231

## Quad Port Copper 10GBase-T Ethernet PCI Express Server Adapter with Intel® XL710-BM1



### Features

- 1 x Intel® Ethernet Controller XL710 and X557 PHY
- 4 x 10GbE copper ports
- PCIe gen. 3 x8 host interface
- Supports SR-IOV based virtualization
- Advanced virtualization and network overlay support
- Standard CAT6a cabling with four RJ45 connectors
- Low profile and half length form factors



### Introduction

Advantech's PCIE-2231 is a low-profile quad port 10GbE Ethernet PCI Express server adapter based on the Intel® Ethernet Controller XL710-BM1 and X557 PHY. By supporting a PCI Express Gen3 x8 host interface, this adapter provides sufficient bandwidth for line rate traffic on all four 10GbE ports. Improved support for virtualization, including VMDq, SR-IOV and VEB make the PCIE-2231 a perfect fit for virtualized environments and applications with network overlays. Packet filtering, load balancing and protocol offload capabilities further enhance efficiency by saving valuable processing time on the host.

PCIE-2231 is an ideal network interface solution for multi-tenant environments and Network Function Virtualization as well as networking applications such as WAN optimization and cyber security.

### Specifications

Controller	Physical Functions	Intel® XL710 + X557 PHY
	Virtual Functions	4
	Virtualization Support	128
Host Interface	Virtualization Support	VMDq, SRIOV, VEB
	PCI Express	8 lanes gen. 3
Network Interfaces	Ports	4 RJ45 Copper cages
	Media	10GBASE-T copper Physical Layer Transceivers
	LEDs (per port)	Link/Act (Green/ Green Blink) Speed: 10GbE (Green), GbE (Amber)
Software support	Operating Systems	Red Hat, CentOS Linux, Windows Server
	Virtualization	KVM
	others	Intel® DPDK
Power consumption	+12V	18W
Environment	Operating Humidity	0 ~ 90%, non-condensing
	Operating Temperature	0 ~ 45° C (32 ~ 113° F)
	Storage	-40 ~ 65° C (-40 ~ 149° F)
Mechanical Specifications	Board Dimensions	167.65 x 68.9 mm (PCIe low profile)
	Bracket	Full height and low profile options available
Compliance	EMC Certifications	FCC, CE Class A

### Ordering Information

Part Number	Description
PCIE-2231NP-00A1E	4-port Copper 10GBase-T Ethernet PCI Express Server Adapter with Intel® X710 + X557 PHY